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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841,459	04/24/2001	Mark N. Robins	10011502-1	5364
7590 05/18/2005			EXAMINER	
HEWLETT-PACKARD COMPANY			HANNETT, JAMES M	
Intellectual Property Administration			ART UNIT	PAPER NUMBER
P.O. Box 272400			ARTONII	TALER NOWBER
Fort Collins, CO 80527-2400			2612	

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/841,459	ROBINS ET AL.	
Office Action Summary	Examiner	Art Unit	
·	James M. Hannett	2612	
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 3' after SIX (6) MONTHS from the mailing date of this communic  - If the period for reply specified above is less than thirty (30) da  - If NO period for reply is specified above, the maximum statuto  - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a relation. ays, a reply within the statutory minimum of third ry period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed of the communication (s) filed of the communic	☐ This action is non-final.  allowance except for formal matt	·	
Disposition of Claims			
4) ⊠ Claim(s) 10-12 and 21-28 is/are pendin 4a) Of the above claim(s) is/are v 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 10-12 and 21-28 is/are rejecte 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	withdrawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the E 10) ☑ The drawing(s) filed on 24 April 2001 is/ Applicant may not request that any objection Replacement drawing sheet(s) including the 11) ☐ The oath or declaration is objected to by	are: a)⊠ accepted or b)☐ object in to the drawing(s) be held in abeyan be correction is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of t application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A he priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)  1) \( \sum \) Notice of References Cited (PTO-892)	A\ ☐ Interview S	ummary (PTO-413)	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-3)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO-1449)</li> </ul>	948) Paper No(s	)/Mail Date  formal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date \_

6) Other: \_\_

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### **DETAILED ACTION**

## Response to Arguments

Applicant's arguments filed 12/3/2004 have been fully considered but they are not persuasive. The applicant argues that Maruyama does not teach the method of generating a multiple exposure in which a preview image which is a yet to be digitally captured image of the current scene is superimposed over a previously captured image. The applicant further argues that the superimposed image in Maruyama has already been captured and therefore, can not be viewed as a preview image.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a preview image which is a yet to be digitally captured image of the current scene) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The examiner views the superimposed image of Maruyama as a preview image because it allows the user to view the image to be merged with the background before it is merged.

Therefore allowing the user to preview a multiple exposure with the super imposed image before the composite image is finalized.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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- 1: Claims 10-12, 21, 22, 24-26 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 2000-056358 Maruyama.
- 2: In regards to Claim 10, Maruyama teaches in the abstract and on Paragraph [0005] and [0010] a method for generating a multiple exposure in a digital camera, the method comprising: displaying simultaneously a background digital image and a superimposed preview image; capturing a digital image of the preview image; and combining the background digital image and the digital image of the preview image to generate the multiple exposure.
- 3: As for Claim 11, Maruyama teaches in Paragraph [0009] that the multiple exposure is saved in memory.
- In regards to Claim 12, Maruyama teaches in Paragraph [0008-0010] the background 4: digital image comprises a composite of a plurality of digital images.
- As for Claim 21, Maruyama teaches in Paragraph [0007-0010] a digital camera. 5: comprising: an optical system (taking lens); an imaging device (15) for converting optical imaged received from the optical system to corresponding digital images; a memory for storing the digital images (26); and a controller configured for combining the digital images (22). Maruyama teaches in Paragraph [0041-0043] a display configured for displaying simultaneously a first digital image and a superimposed preview image.
- As for Claim 22, Maruyama teaches in Paragraph [0018 and 0065] that different numbers 6: of exposures can be captured to perform a multiple exposure, therefore, it is inherent that the camera include an input device for specifying the number of digital images to be combined.

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7: In regards to Claim 24, Maruyama teaches in Paragraph [0008-0010] the background digital image comprises a composite of a plurality of digital images.

- 8: As for Claim 25, Maruyama teaches in Paragraph [0007-0010] a digital camera, comprising: means for collecting optical images (taking lens); means for converting the optical images to corresponding digital images (15); means for storing the digital images (26); and means for combining the digital images (22). Maruyama teaches in Paragraph [0041-0043] a display configured for displaying simultaneously a first digital image and a superimposed preview image.
- 9: As for Claim 26, Maruyama teaches in Paragraph [0018 and 0065] that different numbers of exposures can be captured to perform a multiple exposure, therefore, it is inherent that the camera include an input device for specifying the number of digital images to be combined.
- 10: In regards to Claim 28, Maruyama teaches in Paragraph [0008-0010] the background digital image comprises a composite of a plurality of digital images.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11: Claims 23 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2000-056358 Maruyama in view of EP-1-067-778-A2 Hamada.

12: In regards to Claim 23, Maruyama teaches the claimed invention as discussed in Claim 21, However, Maruyama does not teach specifying a weighting factor for each of the digital images to be combined.

Hamada teaches that each of the images in the multiple exposure are weighted equally by the reciprocal of the number of images captured. Therefore, teaches specifying a weighting factor for each of the digital images to be combined. Hamada teaches that this method is advantageous because it prevents deterioration of the signal to noise ratio of the output image and prevents overflow of a memory capacity.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made weight each of the images in the multiple exposure by the reciprocal of the number of images captured in order to prevent deterioration of the signal to noise ratio of the output image and prevents overflow of a memory capacity.

In regards to Claim 27, Maruyama teaches the claimed invention as discussed in Claim 13: 25, However, Maruyama does not teach specifying a weighting factor for each of the digital images to be combined.

Hamada teaches that each of the images in the multiple exposure are weighted equally by the reciprocal of the number of images captured. Therefore, teaches specifying a weighting factor for each of the digital images to be combined. Hamada teaches that this method is advantageous because it prevents deterioration of the signal to noise ratio of the output image and prevents overflow of a memory capacity.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made weight each of the images in the multiple exposure by the reciprocal of the Application/Control Number: 09/841,459

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number of images captured in order to prevent deterioration of the signal to noise ratio of the output image and prevents overflow of a memory capacity.

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Hannett whose telephone number is 571-272-7309.

The examiner can normally be reached on 8:00 am to 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 571-272-7308. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James M. Hannett Examiner Art Unit 2612

JMH May 11, 2005

> WENDY R. GARBETT SUPERIOSORY PATENT EXAMINER TECHNOLOGY SENTER 2500